

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	425	713/151.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 05:52
L2	9	"6222852".pn. or "20020080771" or "20030206564" or "20040030805"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 05:57
L3	5429	("PHY" or "physical layer transceiver") same ("MAC" or "media access controller")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 05:58
L4	249	I3 same (crypto\$7 or encrypt\$3 or authenticat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 05:59
L5	4	I4 same ("ASIC" or "application specific integrated")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 06:00
L6	63	I4 and ("ASIC" or "application specific integrated")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 06:01
L7	47	I6 and (router or modem)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 06:02

Day : Thursday  
Date: 3/22/2007

Time: 04:28:09

 **PALM INTRANET****Inventor Name Search Result**

Your Search was:

Last Name = YANG

First Name = LI-JAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">10676390</a>	Not Issued	30	09/30/2003	Method and apparatus of integrating link layer security into a physical layer transceiver	YANG, LI-JAN

**Inventor Search Completed:** No Records to Display.

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**Inventor Name Search Result**

Your Search was:

Last Name = BIEDERMAN

First Name = DANIEL

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">09713849</a>	Not Issued	41	11/15/2000	Communication system with priority data compression	BIEDERMAN, DANIEL
<a href="#">09798816</a>	7069342	150	03/01/2001	COMMUNICATION SYSTEM WITH CONTENT-BASED DATA COMPRESSION	BIEDERMAN, DANIEL
<a href="#">10961243</a>	Not Issued	30	10/07/2004	Redundant power and data over a wired data telecommunications network	BIEDERMAN, DANIEL
<a href="#">10961864</a>	Not Issued	30	10/07/2004	Bidirectional inline power port	BIEDERMAN, DANIEL
<a href="#">11006391</a>	6976733	150	12/07/2004	FOLDING CHAIR WITH INTEGRAL TABLE	BIEDERMAN, DANIEL A.
<a href="#">09872989</a>	7089320	150	06/01/2001	APPARATUS AND METHODS FOR COMBINING DATA	BIEDERMAN, DANIEL C.
<a href="#">09906589</a>	Not Issued	61	07/16/2001	Dynamic interrupt timer	BIEDERMAN, DANIEL C.
<a href="#">09920533</a>	7006526	150	07/31/2001	MECHANISMS FOR AVOIDING PROBLEMS ASSOCIATED WITH NETWORK ADDRESS PROTOCOL TRANSLATION	BIEDERMAN, DANIEL C.
<a href="#">10016087</a>	Not Issued	71	12/12/2001	Power source based sleep mode	BIEDERMAN, DANIEL C.
<a href="#">10651596</a>	Not Issued	93	08/29/2003	INLINE POWER BASED DEVICE COMMUNICATIONS	BIEDERMAN, DANIEL C.
<a href="#">10676384</a>	Not Issued	71	09/30/2003	Method and apparatus of communicating security/encryption information to a physical layer transceiver	BIEDERMAN, DANIEL C.
<a href="#">10676390</a>	Not Issued	30	09/30/2003	Method and apparatus of integrating link layer security into a physical layer transceiver	BIEDERMAN, DANIEL C.
<a href="#">10918606</a>	Not Issued	30	08/12/2004	Method and apparatus for dynamically allocating traffic in a physical layer device	BIEDERMAN, DANIEL C.

<a href="#">09986345</a>	Not Issued	71	11/08/2001	Arrangement for providing prepaid content services to a selected user device based on prepaid attributes	BIEDERMAN, DANIEL CHRISTIAN
<a href="#">11493981</a>	Not Issued	30	07/27/2006	Physical layer transceiver with integrated time synchronization	BIEDERMAN, DANIEL CHRISTIAN
<a href="#">11494104</a>	Not Issued	25	07/27/2006	Maintaining consistency among multiple timestamp counters distributed among multiple devices	BIEDERMAN, DANIEL CHRISTIAN
<a href="#">11109722</a>	Not Issued	30	04/20/2005	Litigation management system and method of providing the same	BIEDERMAN, DANIEL J.
<a href="#">60565514</a>	Not Issued	159	04/27/2004	Litigation management system and method of providing the same	BIEDERMAN, DANIEL J.

Inventor Search Completed: No Records to Display.

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Enterprise and technical customers place a diverse set of requirements on server I/O networks. In the past, no single network type has been able to satisfy all of these requirements. As a result several fabric types evolved and several interconnects emerged to satisfy a subset of the requirements. Recently several technologies have emerged that enable a single interconnect to be used as more than one fabric type. This paper will describe the requirements customers place on server I/O networks; t ...

**Keywords:** 10 GigE, Cluster, Cluster Networks, Gigabit Ethernet, I/O Expansion Network, IOEN, InfiniBand, LAN, PCI, PCI Express, RDMA, RNIC, SAN, Socket Extensions, TOE, iONIC, iSCSI, iSER

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# 1 [Promises and reality: Server I/O networks past, present, and future](#)



Renato John Recio

August 2003

**Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications NICELI '03**

Publisher: ACM Press

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Enterprise and technical customers place a diverse set of requirements on server I/O networks. In the past, no single network type has been able to satisfy all of these requirements. As a result several fabric types evolved and several interconnects emerged to satisfy a subset of the requirements. Recently several technologies have emerged that enable a single interconnect to be used as more than one fabric type. This paper will describe the requirements customers place on server I/O networks; t ...

**Keywords:** 10 GigE, Cluster, Cluster Networks, Gigabit Ethernet, I/O Expansion Network, IOEN, InfiniBand, LAN, PCI, PCI Express, RDMA, RNIC, SAN, Socket Extensions, TOE, IONIC, iSCSI, ISER

# 2 [The fiber distributed data interface: a bright future ahead](#)



Sunil P. Joshi

November 1986

**Proceedings of 1986 ACM Fall joint computer conference ACM '86**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(743.29 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

# 3 [Short presentations with posters I: A network agent for diagnosis and analysis of real-time Ethernet networks](#)



Hans Peter Löb, Rainer Buchty, Wolfgang Karl

October 2006

**Proceedings of the 2006 international conference on Compilers, architecture and synthesis for embedded systems CASES '06**

Publisher: ACM Press

Full text available: [pdf\(235.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Within the field of automation technology the use of Industrial Ethernet is rising. This in turn demands devices capable of precisely recording, analyzing, and manipulating communication data for diagnostic purposes. Existing solutions so far lack required flexibility or are unable to cope with sustained Gigabit-per-second data streams. This is especially true for general-purpose approaches employing ordinary network adapters and plain software-based analysis. In this paper we describe a flexible ...

**Keywords:** industrial Ethernet, monitoring, real-time, system-on-chip

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Terms used **link layer security**

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### 1 [Middleware For Building Adaptive Systems Via Configuration](#)



Sanjai Narain, Ravichander Vaidyanathan, Stanley Moyer, William Stephens, Kirthika Parmeswaran, Abdul Rahim Shareef

 August 2001 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN workshop on Languages, compilers and tools for embedded systems LCTES '01 , Proceedings of the 2001 ACM SIGPLAN workshop on Optimization of middleware and distributed systems OM '01**, Volume 36 Issue 8

Publisher: ACM Press

Full text available: pdf(257.49 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

COTS (commercial off-the-shelf) devices, including middleware components, are capable of executing powerful, distributed algorithms. Very large, adaptive systems can be created by simply integrating these devices, not by creating new devices, algorithms or external control systems. The principal integration method is configuration: every device is designed to have a finite set of configuration parameters that can be set to definite values. These parameters are static in that, unlike the device's ...

**Keywords:** CORBA, QoS, configuration, diagnosis, middleware, network, private, provisioning, routing, security, service, virtual

### 2 [Intercepting mobile communications: the insecurity of 802.11](#)



Nikita Borisov, Ian Goldberg, David Wagner

 July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking MobiCom '01**

Publisher: ACM Press

Full text available: pdf(181.52 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The 802.11 standard for wireless networks includes a Wired Equivalent Privacy (WEP) protocol, used to protect link-layer communications from eavesdropping and other attacks. We have discovered several serious security flaws in the protocol, stemming from mis-application of cryptographic primitives. The flaws lead to a number of practical attacks that demonstrate that WEP fails to achieve its security goals. In this paper, we discuss in detail each of the flaws, the underlying security princip ...

### 3 [Ubiquitous computing/security: Towards a new paradigm for securing wireless sensor networks](#)



K. Jones, A. Wadaa, S. Olariu, L. Wilson, M. Eltoweissy

 August 2003 **Proceedings of the 2003 workshop on New security paradigms NSPW**



'03

**Publisher:** ACM PressFull text available:  pdf(718.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The network model assumed in this paper consists of tiny, energy-constrained, commodity sensors massively deployed alongside with one or more sink nodes that provide the interface to the outside world. The sensors in the network are initially anonymous and unaware of their location. Our main contribution is to propose a new robust and energy-efficient solution for secure operation of wireless sensor networks. The paper motivates a new paradigm where security is based upon using parameterized fre ...

**Keywords:** energy-efficient protocols, frequency hopping, security, wireless sensor networks

#### 4 [Features: The Family Dynamics of 802.11](#)

May 2003 **Queue**, Volume 1 Issue 3**Publisher:** ACM PressFull text available:  pdf(622.71 KB)  html(41.31 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

#### 5 [Columns: Risks to the public in computers and related systems](#)




Peter G. Neumann

November 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 6**Publisher:** ACM PressFull text available:  pdf(1.25 MB) Additional Information: [full citation](#), [references](#)

#### 6 [Mobile networking in the Internet](#)



Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4**Publisher:** Kluwer Academic PublishersFull text available:  pdf(166.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

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**Key:** IEEE JNL = IEEE Journal or Magazine, IEE JNL = IEE Journal or Magazine, IEEE CNF = IEEE Conference, II CNF = IEE Conference, IEEE STD = IEEE Standard

1. **Adaptive link layer security for wireless networks (ALL-Sec)**  
Niranjan; Ganz, A.;  
Military Communications Conference, 2004. MILCOM 2004. IEEE  
Volume 1, 31 Oct.-3 Nov. 2004 Page(s):153 - 159 Vol. 1  
IEEE CNF
2. **A power efficient link-layer security protocol (LLSP) for wireless sensor networks**  
Jian Ren; Tongtong Li; Aslam, D.;  
Military Communications Conference, 2005. MILCOM 2005. IEEE  
17-20 Oct. 2005 Page(s):1002 - 1007 Vol. 2  
IEEE CNF
3. **Application method of QoS, IPv6, Security in WiBro**  
Kyu Ouk Lee; Jin Ho Hahm; Young Sun Kim;  
Advanced Communication Technology, 2006. ICACT 2006. The 8th International Conference  
Volume 3, 20-22 Feb. 2006 Page(s):4 pp.  
IEEE CNF
4. **Link layer security for SAHN protocols**  
Muhammad Mahmudul Islam; Pose, R.; Kopp, C.;  
Pervasive Computing and Communications Workshops, 2005. PerCom 2005 Workshops. Third IEEE International  
Conference on  
8-12 March 2005 Page(s):279 - 283  
IEEE CNF
5. **Runtime security composition for sensor networks (SecureSense)**  
Qi Xue; Ganz, A.;  
Vehicular Technology Conference, 2003. VTC 2003-Fall. 2003 IEEE 58th  
Volume 5, 6-9 Oct. 2003 Page(s):2976 - 2980 Vol.5  
IEEE CNF
6. **SPRiNG: synchronized random numbers for wireless security**  
Pepyne, D.L.; Yu-Chi Ho; Qinghua Zheng;  
Wireless Communications and Networking, 2003. WCNC 2003. 2003 IEEE  
Volume 3, 16-20 March 2003 Page(s):2027 - 2032 vol.3  
IEEE CNF
7. **IEEE standards for local and metropolitan area networks: Standard for Interoperable LAN/MAN Security (SILS)**  
IEEE Std 802.10-1998  
16 Oct. 1998  
IEEE STD
8. **Transparent IP layer Interception on Enterprise 802.11b/g Networks**  
Harrop, W.; Armitage, G.;  
TENCON 2005 2005 IEEE Region 10  
Nov. 2005 Page(s):1 - 5  
IEEE CNF

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... using the existing **Media Access Controller**, and with extensions to the ... data **link layer security** protocol and associated security services. ...  
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System and method for bandwidth management in ethernet-based fiber ...

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System for communications in ethernet-based fiber optic TDMA ...

DOCSIS also provides **link layer security** with authentication. ... but rather at the interface of the physical layer device to the **media access controller**. ...  
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EP1223692 Broadcom european software patent - System, method, and ...

DOCSIS also provides **link layer security** with authentication. ... the serial interface is located at a **media access controller** at the headend. ...  
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### System for spectrum allocation in ethernet-based fiber optic TDMA ...

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DOCSIS also provides **link layer security** with authentication. ... but rather at the interface of the physical layer device to the **media access controller**. ...

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### Methods and systems of remote authentication for computer networks ...

... privacy) and is a **link-layer security** protocol based on the RC4 stream cipher, ... in one embodiment, an AP's MAC (**media access controller**) address, ...

[www.freepatentsonline.com/20050021979.html](http://www.freepatentsonline.com/20050021979.html) - 47k - [Cached](#) - [Similar pages](#)

### EP1225749 Broadcom european software patent - Methods and systems ...

DOCSIS also provides **link layer security** with authentication. ... upstream data is passed to a **media access controller** (MAC) 130 that performs media access ...

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### [PDF] BLUETOOTH WITH INDUSTRIAL COMPUTERS

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... would keep the Bluetooth radio but optimize the **media-access controller**. ... At the **link layer, security** is maintained by authentication of the peers ...

[ae.tut.fi/research/AIN/Publications//Lucan%20Vladimir%20-%20Bluetooth%20in%20automation.pdf](http://ae.tut.fi/research/AIN/Publications//Lucan%20Vladimir%20-%20Bluetooth%20in%20automation.pdf) - [Similar pages](#)

### PatentScope Search: ic/H04K-1/00

An apparatus for providing **link layer security** in a Physical Layer ... 3, 320) configured to interface with a **Media Access Controller** (MAC) (Fig. ...

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